



(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
29.04.2020 Bulletin 2020/18

(51) Int Cl.:
H04R 25/00 (2006.01) H04R 29/00 (2006.01)

(43) Date of publication A2:
01.01.2020 Bulletin 2020/01

(21) Application number: **19181574.5**

(22) Date of filing: **21.06.2019**

(84) Designated Contracting States:
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR
Designated Extension States:
BA ME
Designated Validation States:
KH MA MD TN

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(30) Priority: **25.06.2018 EP 18179506**

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(54) **A HEARING DEVICE ADAPTED FOR MATCHING INPUT TRANSDUCERS USING THE VOICE OF A WEARER OF THE HEARING DEVICE**

(57) A hearing device, e.g. a hearing aid, comprises first and second separate, interconnectable parts comprising first and second input transducers, respectively, for providing first and second electric input signals, respectively, representative of sound in an environment of the user, and a beamformer filtering unit configured to provide a spatially filtered signal based thereon, and a memory comprising a previously determined own voice transfer function corresponding to a target sound source located at said user's mouth. The hearing device is configured to determine an updated own voice transfer function according to activation of a predefined trigger, when the user's own voice is present, and to store an updated own voice transfer function in said memory. The hearing device further comprises at least one combination unit configured to apply a first multiplication factor to at least one of the first and second electric input signals, and a control unit configured to determine the first multiplication factor so as to decrease, e.g. minimize a difference measure representative of a difference between the previously determined own voice transfer function and the updated own voice transfer function.

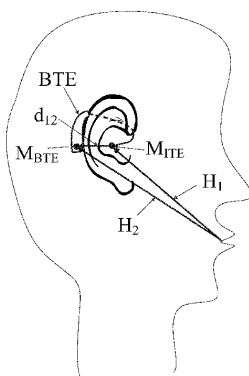


FIG. 1A

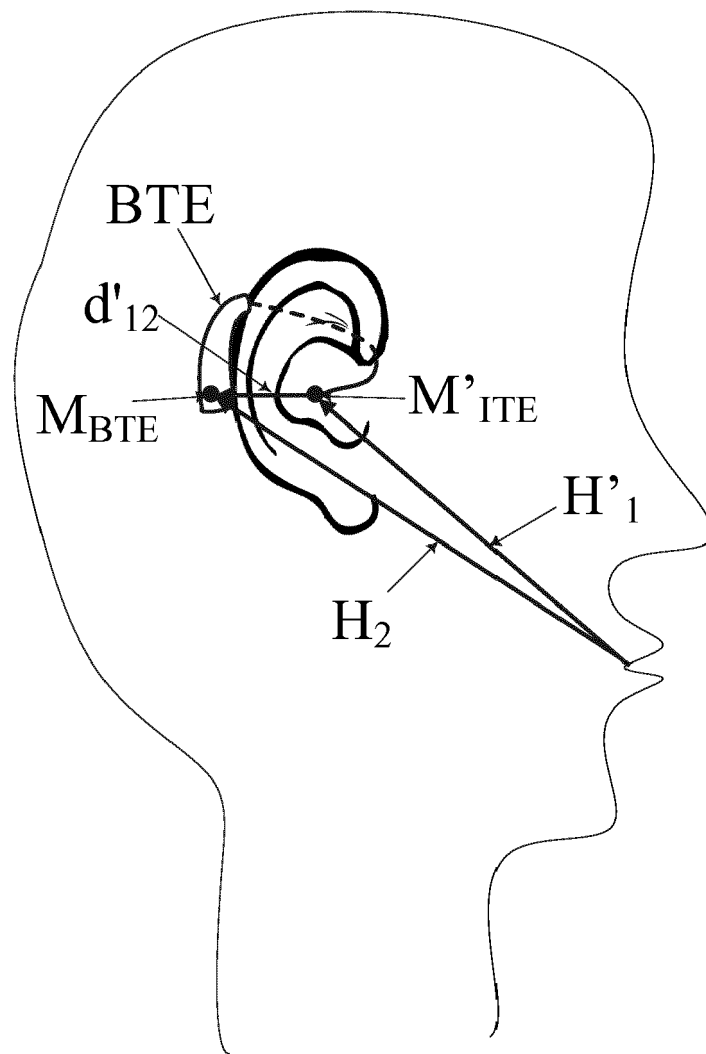


FIG. 1B

**PARTIAL EUROPEAN SEARCH REPORT**

Application Number

under Rule 62a and/or 63 of the European Patent Convention.
This report shall be considered, for the purposes of
subsequent proceedings, as the European search report

EP 19 18 1574

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
A	EP 2 040 486 A2 (STARKEY LAB INC [US]) 25 March 2009 (2009-03-25) * the whole document *	1-14	INV. H04R25/00 H04R29/00
A	EP 2 793 488 A1 (SIEMENS MEDICAL INSTR PTE LTD [SG]) 22 October 2014 (2014-10-22) * the whole document *	1-14	
A	JP H06 27993 A (MITSUBISHI ELECTRIC CORP) 4 February 1994 (1994-02-04) * abstract *	1,12	
			TECHNICAL FIELDS SEARCHED (IPC)
			H04R

INCOMPLETE SEARCH

The Search Division considers that the present application, or one or more of its claims, does/do not comply with the EPC so that only a partial search (R.62a, 63) has been carried out.

Claims searched completely :

Claims searched incompletely :

Claims not searched :

Reason for the limitation of the search:

see sheet C

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Place of search	Date of completion of the search	Examiner
Munich	17 March 2020	Sucher, Ralph
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document		

EPO FORM 1503 03/82 (P04E07)

INCOMPLETE SEARCH
SHEET C

Application Number

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Claim(s) completely searchable:
1-14

Claim(s) not searched:
15

Reason for the limitation of the search:

Claim 15 attempts to define a "non-transitory application, termed an APP, comprising executable instructions configured to be executed on an auxiliary device to implement a user interface for a hearing device according to any one of claims 1-11".

However, the claim fails to define any technical features of the user interface or the method for implementing the user interface, respectively. The mere definition that the user interface is "suitable for" a hearing device according to any of claims 1-11 does not imply any technical limitations regarding the user interface, because claim 15 does not define which features of the hearing device of claims 1-11 (if any) should be controlled by the user interface. Even if it were defined in claim 15 that the "predefined trigger" of claim 1 is generated via the user interface, as understood from p. 31, l. 30-32 of the description (as well as claim 13), the claim would merely define (an application for implementing) a user interface for "activating" a certain function on a hearing device, which corresponds to a simple "start" button. Such a program is so unduly broad that it cannot be searched.

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

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5 This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
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17-03-2020

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